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NEWS	5	Aug	23	Left Truncation Added to Several STN Files
NEWS	6	Aug	30	The International Patent Classification in English and German available on STN
NEWS	7	Aug	30	IFIRXA File has changed to IFICLS
NEWS	8	Aug	30	IMSworld Pharmaceutical Company Profiles (IMSPROFILES) from IMS HEALTH now on STN

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FILE LAST UPDATED: 31 Aug 1999 (19990831/ED)

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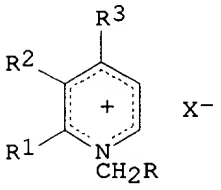
=> s l1

L2 10 L1

=> d 1-10 iall

L2 ANSWER 1 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1991:655361 CAPLUS
DOCUMENT NUMBER: 115:255361
TITLE: Regioselectivity of reactions of azinium salts and ylides with tetracyanoethylene
AUTHOR(S): Shestopalov, A. M.; Aitov, I. A.; Sharanin, Yu. A.; Litvinov, V. P.
CORPORATE SOURCE: Inst. Org. Khim. im. Zelinskogo, Moscow, USSR
SOURCE: Izv. Akad. Nauk SSSR, Ser. Khim. (1991), (6), 1431-9
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Russian
CLASSIFICATION: 22-4 (Physical Organic Chemistry)
OTHER SOURCE(S): CASREACT 115:255361
GRAPHIC IMAGE:



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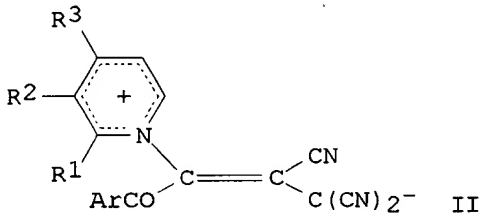


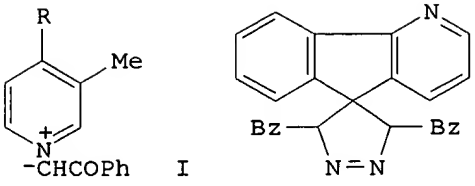
II

ABSTRACT:
Reaction of azinium salts I [R = e.g., H, COPh, CONH2; R1, R2 = e.g., H, Me; (R1R2) = (CH:CH)2; R3 = H, Me; X = halide, ClO4-] with TCNE in aq. MeOH at 20.degree. proceeded by hydrolysis/anion exchange, with formation of I [X = -OC(CN):C(CN)2]. Azinium ylides generated in the reaction of I (R = COAr, Ar =
substituted Ph; R1-R3 = e.g., H, Me) with NEt3 in MeOH reacted with TCNE via a stereoselective addn.-elimination reaction, forming Z 1,4-ylides II. The mechanism of reaction was discussed.

SUPPL. TERM: TCNE stereoselective addn elimination azinium salt; ylide aroylpyridiniotricyanopropenide
INDEX TERM: Hydrolysis
(anion exchange and, in reaction of azinium salts with TCNE in aq. methanol)

INDEX TERM: Ylides
ROLE: PRP (Properties)
(aroylpyridiniotricyanopropenides, stereoselective formation of, in reaction of azinium ylides with TCNE)
INDEX TERM: Addition reaction
(stereoselective, elimination and, in reaction of azinium ylides with TCNE)
INDEX TERM: 930-73-4 3947-76-0 10129-51-8 41220-29-5 52805-99-9 63008-23-1 78572-44-8 133828-84-9 136714-37-9 136714-38-0
ROLE: PRP (Properties)
(anion exchange/hydrolysis reaction of, with TCNE)
INDEX TERM: **16844-10-3** 16883-69-5 32896-98-3
ROLE: PRP (Properties)
(anion exchange/hydrolysis reaction of, with TCNE, and stereoselective addn./elimination reaction of ylide derived from, with TCNE)
INDEX TERM: 670-54-2, TCNE, reactions
ROLE: RCT (Reactant)
(hydrolysis/anion exchange reaction of, with azinium salts, and stereoselective addn./elimination reaction of, with ylides derived from azinium salts)
INDEX TERM: 134720-91-5P 134720-92-6P 134720-95-9P 136714-39-1P 136714-40-4P 136714-41-5P 136714-43-7P 136714-44-8P 136714-46-0P 136714-48-2P 136714-50-6P 136714-51-7P 136714-53-9P 136714-54-0P 136714-57-3P 136714-58-4P 136714-59-5P 136714-60-8P 136714-61-9P 136714-62-0P 136714-63-1P 136714-64-2P 136714-65-3P 136714-66-4P 136974-27-1P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 7250-28-4 17282-37-0 25357-43-1 26031-66-3 82746-41-6 82746-43-8 136106-08-6 136714-55-1 136714-56-2
ROLE: PRP (Properties)
(stereoselective addn./elimination reaction of ylide derived from, with TCNE)

L2 ANSWER 2 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1990:478234 CAPLUS
DOCUMENT NUMBER: 113:78234
TITLE: New method of 1-pyrazoline ring formation
AUTHOR(S): Prostakov, N. S.; Varlamov, A. V.; Annan, Hussein; Fomichev, A. A.; Aliev, A. E.
CORPORATE SOURCE: Univ. Druzhby Nar. im. P. Lumumby, Moscow, 117923, USSR
SOURCE: Khim. Geterotsikl. Soedin. (1989), (12), 1697
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
CLASSIFICATION: 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))
OTHER SOURCE(S): CASREACT 113:78234
GRAPHIC IMAGE:



ABSTRACT:
Treating ylides I (R = Ph3Si, H), generated from the corresponding N-phenacylpyridinium bromides by aq. K2CO3 in CHCl3 at 20.degree., with 9-diazo-4-azafluorene in CHCl3 for 5 h at 20.degree. gave 35 and 32% spiropyrazoline deriv. II.

SUPPL. TERM: phenacylpyridinium ylide diazotization cyclization; spirocarbazolepyrazole; pyrazole spirocarbazole

INDEX TERM: Ring closure and formation
(of phenacylpyridine ylides with diazoazafluorene, spiro[azafluorene-pyrazoline] derivs. from)

INDEX TERM: Ylides
ROLE: RCT (Reactant)
(of phenacylpyridines, cyclization by diazoazafluorene)

INDEX TERM: Spiro compounds
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of spiro[azafluorene-pyrazoline] deriv.)

INDEX TERM: 50555-86-7
ROLE: RCT (Reactant)
(cyclization by, of phenacylpyridine ylides, spiro[azafluorene-pyrazoline] derivs. from)

INDEX TERM: 56241-32-8 67433-80-1
ROLE: RCT (Reactant)
(cyclization of, by diazoazafluorene, spiro[azafluorene-pyrazoline] deriv. from)

INDEX TERM: **16844-10-3** 67433-79-8
ROLE: RCT (Reactant)
(generation of ylide from)

INDEX TERM: 128381-32-8P 128443-23-2P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L2 ANSWER 3 OF 10 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER: 1986:590862 CAPLUS
DOCUMENT NUMBER: 105:190862
TITLE: Stereochemical study on 1,3-dipolar cycloaddition reactions of heteroaromatic N-ylides with symmetrically substituted cis and trans olefins
AUTHOR(S): Tsuge, Otohiko; Kanemasa, Shuji; Takenaka, Shigeori
CORPORATE SOURCE: Interdiscip. Grad. Sch. Eng. Sci., Kyushu Univ., Kasuga, 816, Japan
SOURCE: Bull. Chem. Soc. Jpn. (1985), 58(11), 3137-57
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 27-16 (Heterocyclic Compounds (One Hetero Atom))
OTHER SOURCE(S): CASREACT 105:190862

ABSTRACT:
Stereochem. of the cycloaddns. of twenty-four heteroarom. N-ylides with sym. substituted cis and trans olefins has been investigated. Cyclic and acyclic cis olefins cycloadd to the anti form of the ylides in a highly endo-selective manner giving almost quant. yields of stereospecific endo 3+2 cycloadducts. N-Ylides stabilized with a substituent of the carbonyl type react with trans

olefins to form mostly 2 stereoisomeric 3+2 cycloadducts to the anti form of the ylides. In most cases, they undergo stereospecific interconversion through
a retro cycloaddn. process, the isomer ratios and the ease of transformation depending upon the nature and size of substituents on the 5-membered ring which
has been built up in the cycloaddn. step. On the other hand, N-ylides stabilized with a substituent of noncarbonyl type react with trans olefins to give stereospecific and stereoselective 3+2 cycloadducts as single isomers which are assigned as the cycloadducts to the syn form of the ylides.

SUPPL. TERM: ylide heteroarom olefin cycloaddn stereochem

INDEX TERM: Cycloalkenes
Alkenes, reactions
ROLE: RCT (Reactant)
(cycloaddn. of, with heteroarom. N-ylides, stereochem. of)

INDEX TERM: Ylides
ROLE: RCT (Reactant)
(heteroarom. N-, cycloaddn. of, with olefins, stereochem.
of)

INDEX TERM: Stereochemistry
(of cycloaddn. of heteroarom. N-ylides with olefins)

INDEX TERM: Cycloaddition reaction
(of heteroarom. N-ylides with olefins, stereochem. of)

INDEX TERM: 762-42-5
ROLE: PROC (Process)
(addn. of, with diazatricyclododecadienes)

INDEX TERM: 624-48-6 624-49-7 764-42-1 928-53-0 930-88-1
941-69-5 959-27-3 959-28-4 1081-17-0 1631-28-3
2973-17-3 7633-38-7 18305-60-7
ROLE: PROC (Process)
(cycloaddn. of, with heteroarom. N-ylides, stereochem. of)

INDEX TERM: 108-31-6, reactions
ROLE: RCT (Reactant)
(cycloaddn. of, with heteroarom. N-ylides, stereochem. of)

INDEX TERM: 289-80-5 946-07-6 4329-73-1 5304-34-7 7250-28-4
7467-00-7 16726-82-2 **16844-10-3** 16883-69-5
17282-40-5 17282-41-6 17282-43-8 18667-21-5
25131-60-6 25357-39-5 25357-50-0 25357-51-1
26489-32-7 32896-98-3 33014-32-3 39595-94-3
40448-79-1 40448-80-4 51386-37-9 55814-00-1
55841-58-2 56241-32-8 56567-29-4 57699-26-0
58329-45-6 59456-80-3 59986-29-7 64636-81-3
72797-44-5 72797-45-6 78113-64-1 80636-51-7
82735-58-8 87773-11-3 88089-35-4 88089-43-4
88089-46-7 90625-75-5 92171-46-5 104932-95-8
104932-96-9 104932-97-0 104953-23-3 104953-24-4
ROLE: PROC (Process)
(cycloaddn. of, with olefins, stereochem. of)

INDEX TERM: 104953-21-1P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and oxidn. of)

INDEX TERM: 37129-40-1P 78113-52-7P 78113-53-8P 78113-54-9P
78184-05-1P 78184-06-2P 78184-07-3P 88089-36-5P
88089-37-6P 88089-38-7P 88089-39-8P 88089-40-1P
88089-41-2P 88089-44-5P 88089-45-6P 88121-62-4P
88121-63-5P 90625-67-5P 90625-68-6P 90625-69-7P
90625-70-0P 90625-71-1P 90625-72-2P 90625-73-3P

90625-74-4P 90650-46-7P 90650-47-8P 97204-08-5P
97204-09-6P 97204-10-9P 97204-11-0P 97204-12-1P
97204-13-2P 97204-14-3P 97204-15-4P 97226-60-3P
97275-41-7P 97275-42-8P 97275-43-9P 97275-44-0P
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104953-16-4P 104953-17-5P 104953-18-6P 104953-19-7P
104953-20-0P 104953-22-2P 104953-25-5P 104953-26-6P
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105016-33-9P 105017-09-2P 105017-10-5P 105017-11-6P
105017-12-7P 105017-13-8P 105017-14-9P 105017-15-0P
105017-16-1P 105017-17-2P 105017-18-3P 105017-19-4P
105017-20-7P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 100-48-1 110-86-1, reactions 119-65-3 288-47-1
591-22-0 3796-23-4
ROLE: RCT (Reactant)
(quaternization of)
INDEX TERM: 70-11-1 590-17-0 2114-00-3 15109-94-1
ROLE: RCT (Reactant)
(reaction of, with pyridine)

L2 ANSWER 4 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1981:165607 CAPLUS
DOCUMENT NUMBER: 94:165607
TITLE: Pyridinium compound fogging agents for photographic material
INVENTOR(S): Oishi, Yasushi; Hirano, Shigeo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Ger. Offen., 70 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
INT. PATENT CLASSIF.: G03C005-30
CLASSIFICATION: 74-2 (Radiation Chemistry, Photochemistry, and Photographic Processes)
Section cross-reference(s): 27
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3014628	A1	19801030	DE 1980-3014628	19800416
DE 3014628	C2	19910502		
JP 55138742	A2	19801029	JP 1979-46949	19790417
JP 62004699	B4	19870131		
US 4324855	A	19820413	US 1980-140923	19800416
PRIORITY APPLN. INFO.:			JP 1979-46949	19790417

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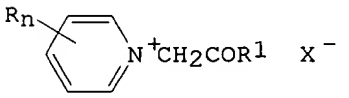

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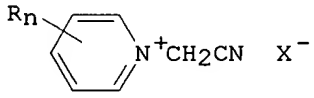

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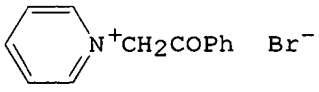


III

ABSTRACT:
Reversal images with a higher Dmax and a lower Dmin can be produced by incorporation of nucleating agents (fogging agents) of the formulas I or II (R = trihalomethyl, CN, carbamoyl, a carboxyl ester, carboxamido, sulfonamido, acyl, sulfonyl, sulfamoyl, acylamino, aryl, alkyl, or heterocycle; R1 = a mono-, di-, or tricyclic aryl group, a heterocycle, or a straight chain, branched chain, or cyclic alkyl; X- = anion; n = 0-3) into an internal latent image-forming emulsion layer contg. a dye-forming compd. and subsequently processing with an alk. soln. after imagewise exposure. Thus, a transparent cellulose acetate film support was coated with a layer contg. a magenta dye-releasing redox compd., a layer of a spectrally sensitized internal latent image-forming gelatin-AgBr emulsion contg. III 1.4 mmol/mol Ag, and a protective gelatin layer. This unit was then exposed, combined with a receptor
element contg. a mordant, and processed with an alk. processing soln. to give a
magenta pos. image with a Dmin of 0.03 and a Dmax of 1.25.

SUPPL. TERM: cyanoethylpyridinium fogging agent photog; aroylmethylpyridinium fogging agent photog; alkanoylmethylpyridinium fogging agent photog; pyridinium deriv fogging agent photog; nucleating agent pyridinium deriv photog; fogging agent pyridinium deriv photog

INDEX TERM: 5469-10-3 6277-72-1 6299-99-6 **16844-10-3**
16844-14-7 16883-69-5 17281-59-3 17282-37-0
17282-38-1 25357-39-5 25357-44-2 25357-46-4
25407-31-2 26031-47-0 26031-59-4 26031-66-3
26535-84-2 42508-60-1 49854-35-5 63374-35-6
64881-07-8 69656-16-2 77281-09-5 77281-10-8
77281-11-9 77281-12-0 77281-13-1 77281-14-2
77281-15-3 77281-16-4 77281-17-5 77281-18-6
77281-19-7 77281-20-0 77281-21-1 77281-22-2
77281-23-3 77281-24-4 77281-25-5 77281-26-6
77281-27-7 77281-28-8 77281-29-9 77281-30-2
77281-31-3 77281-32-4 77281-33-5 77281-34-6
77281-35-7
ROLE: USES (Uses)
(photog. fogging agent, for reversal image prodn.)

INDEX TERM: 29536-25-2P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of, with phenacyl bromide)

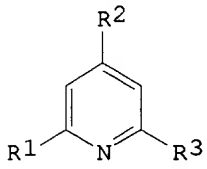
INDEX TERM: 20260-53-1
ROLE: RCT (Reactant)
(reaction of, with cetylamine)

INDEX TERM: 143-27-1
ROLE: RCT (Reactant)
(reaction of, with nicotinoyl chloride hydrochloride)

INDEX TERM: 70-11-1
ROLE: RCT (Reactant)
(reaction of, with N-hexadecylnicotinamide)

L2 ANSWER 5 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1981:65440 CAPLUS
DOCUMENT NUMBER: 94:65440
TITLE: Studies on cycloimmonium ylides. Synthesis of some 2,4,6-triaryl-substituted pyridines via picolinium ylides
AUTHOR(S): Tewari, Ram. S.; Dubey, Ajay K.; Misra, Naresh K.; Dixit, Priya D.
CORPORATE SOURCE: Dep. Chem., H. B. Technol. Inst., Kanpur, 208002, India

SOURCE: J. Chem. Eng. Data (1981), 26(1), 106-8
CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE:



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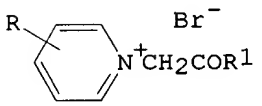

II

ABSTRACT:
2,4,6-Triaryl-substituted pyridines I were prepd. by reaction of aroylmethylenepicolinium ylides II (R = 3-Me, 4-Me; R1 = Ph, 4-ClC6H4, p-tolyl)
with R2CH:CHCOR3 (R2, R3 = optionally substituted Ph).

SUPPL. TERM: pyridine triphenyl; cyclocondensation picolinium ylide chalcone
INDEX TERM: Cyclocondensation reaction
(of picolinium ylides with chalcones, substituted pyridines from)
INDEX TERM: 94-41-7 959-23-9 1230-77-9 2373-89-9 2453-44-3
5416-71-7 6552-63-2 6552-66-5 6552-68-7 19133-00-7
19672-59-4 21551-47-3 42580-60-9 69538-64-3
72666-54-7 73911-01-0 75573-20-5 75573-21-6
ROLE: RCT (Reactant)
(cyclocondensation of, with picolinium ylides, substituted pyridine from)
INDEX TERM: **16844-10-3** 25357-43-1 76337-69-4
ROLE: RCT (Reactant)
(cyclocondensation of, with substituted chalcones, substituted pyridine from)
INDEX TERM: 580-35-8P 3557-65-1P 16112-42-8P 72666-41-2P
72666-42-3P 72666-45-6P 72666-47-8P 72666-48-9P
72666-49-0P 72666-50-3P 72673-14-4P 73910-87-9P
73910-89-1P 75573-10-3P 75573-11-4P 75573-12-5P
75573-13-6P 75573-14-7P 75573-15-8P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L2 ANSWER 6 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1978:22552 CAPLUS
DOCUMENT NUMBER: 88:22552
TITLE: Reaction of pyridinium N-ylides with ketene thioacetal
derivatives
AUTHOR(S): Tominaga, Yoshinori; Miyake, Yoshinori; Fujito, Hiroshi; Kurata, Keiji; Awaya, Hiroyoshi; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SOURCE: Chem. Pharm. Bull. (1977), 25(7), 1528-33
CODEN: CPBTAL
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
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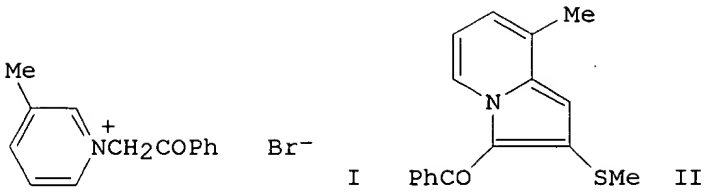
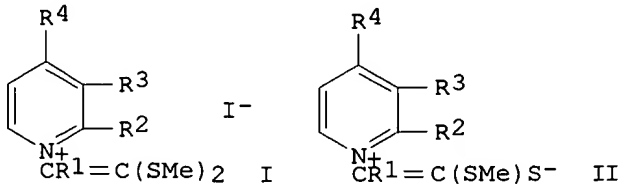


ABSTRACT:
Reaction of the pyridinium N-ylides with ketenethioacetal in the presence of Et3N or K2CO3 as a base in EtOH or DMF gave the pyridinium N-allylides which readily cyclized to give the indolizine derivs. Thus, the pyridinium ylide I and (MeS)2C:CHNO2 gave the indolizine II.

SUPPL. TERM: pyridinium ylide reaction ketenethioacetal; indolizine
INDEX TERM: Cyclocondensation reaction
(of methylpyridinium ylides with ketene thioacetal derivs., indolizine derivs. from)
INDEX TERM: Ylides
ROLE: RCT (Reactant)
(pyridinium, reaction of, with ketene thioacetal derivs.)
INDEX TERM: 57845-14-4P 57845-15-5P 59182-01-3P 64908-40-3P
64908-43-6P 64995-24-0P 64995-25-1P 64995-26-2P
64995-27-3P 64995-28-4P 64995-29-5P 64995-30-8P
64995-31-9P 64995-32-0P 64995-33-1P 64995-34-2P
64995-35-3P 64995-36-4P 64995-37-5P 64995-38-6P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 7250-28-4 **16844-10-3** 16883-69-5 17282-40-5
41220-29-5 56567-29-4 64636-79-9 64636-80-2
64995-39-7 64995-40-0 64995-41-1 64995-42-2
64995-43-3
ROLE: RCT (Reactant)
(reaction of, with ketenethioacetals)
INDEX TERM: 3490-92-4 5147-80-8 13623-94-4 17823-58-4
18374-66-8
ROLE: RCT (Reactant)
(reaction of, with pyridinium ylides)

L2 ANSWER 7 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1977:601268 CAPLUS
DOCUMENT NUMBER: 87:201268
TITLE: Heterocyclic ketene thioacetal derivatives. VIII. Synthesis of ketene thioacetals having a pyridinium salt
AUTHOR(S): Tominaga, Yoshinori; Miyake, Yoshinori; Fujito, Hiroshi; Matsuda, Yoshiro; Kobayashi, Goro
CORPORATE SOURCE: Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SOURCE: Yakugaku Zasshi (1977), 97(8), 927-32
CODEN: YKKZAJ
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE:



ABSTRACT:
Ketenethioacetal derivs. I (R1 = Bz, CO2Et, CONH2, CN; R2, R3, R4 = H, Me) were
prepd. by alkylation with MeI of II, which were prepd. by the reaction of pyridinium ylides with CS2 in the presence o NaOH.

SUPPL. TERM: pyridinium ketene thioacetal deriv; ylide pyridinium reaction carbon disulfide
INDEX TERM: Mercaptals and Mercaptoles
ROLE: RCT (Reactant)
(ketene thioacetals with a pyridinium salt)
INDEX TERM: Ylides
ROLE: RCT (Reactant)
(pyridinium, reaction of, with carbon disulfide)
INDEX TERM: 64636-63-1P 64636-64-2P 64636-65-3P 64636-66-4P
64636-67-5P 64636-68-6P 64636-69-7P 64636-70-0P
64636-71-1P 64636-72-2P 64636-73-3P 64636-74-4P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction with methyl iodide)
INDEX TERM: 57845-27-9P 59181-92-9P 59181-93-0P 59181-94-1P
59181-95-2P 59181-96-3P 59181-97-4P 59181-98-5P
64636-75-5P 64636-76-6P 64636-82-4P 64636-83-5P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 7250-28-4 **16844-10-3** 17282-40-5 26557-57-3
32896-98-3 42866-67-1 55814-02-3 64636-77-7
64636-78-8 64636-79-9 64636-80-2 64636-81-3
ROLE: RCT (Reactant)
(reaction of, with carbon disulfide and dimethyl sulfate)
INDEX TERM: 75-15-0, reactions
ROLE: RCT (Reactant)
(reaction of, with pyridinium ylides)
INDEX TERM: 74-88-4, reactions 75-18-3
ROLE: RCT (Reactant)
(reaction of, with sulfur contg. pyridinium ylides)

L2 ANSWER 8 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1975:514165 CAPLUS
DOCUMENT NUMBER: 83:114165
TITLE: Route to 2,6-dihydroxypiperidines
AUTHOR(S): Wild, Peter; Kroehnke, Fritz
CORPORATE SOURCE: Inst. Org. Chem., Univ. Giessen, Giessen, Ger.
SOURCE: Justus Liebigs Ann. Chem. (1975), (5), 849-63
CODEN: JLACBF
DOCUMENT TYPE: Journal
LANGUAGE: German
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE: For diagram(s), see printed CA Issue.
ABSTRACT:
Acylalkylpyridinium salts I (R = H, 3-Me, 4-Me, 3,5-Me2; R1 = Me, Ph, 4-MeC6H4)

reacted with R2CHO (R2 = H, Ph, 4-MeC6H4) and R3NH2 (R3 = H, Me) in a 2:1:1 molar ratio to give .apprx.60% dipyridinium salts II. II lost 1 mole H2O to give tetrahydro derivs. III and a 2nd mole H2O to give dihydro derivs. IV. IV were dehydrogenated to the corresponding pyridine compds. which were readily ring-cleaved to give pyridinediamines V and glutaconaldehyde deriv. VI. Excess
piperidine causes chain-shortening of VI.

SUPPL. TERM: acylpyridinium reaction aldehyde ammonia; pyridinium acyl reaction aldehyde ammonia; amine reaction acylpyridinium; hydroxypiperidinediyldipyridinium; piperidinediyldipyridinium dihydroxy; glutaconaldehyde Schiff base; dehydration
dihydroxypiperidinediyldipyridinium

INDEX TERM: Dehydration, chemical
(acid-catalyzed, of
(dihydroxypiperidinediyl)dipyridinium
salts)

INDEX TERM: Aldehydes, reactions
ROLE: RCT (Reactant)
(with acylalkylpyridinium salts and ammonia)

INDEX TERM: 56566-74-6P 56566-75-7P 56566-76-8P 56566-77-9P
56566-78-0P 56566-81-5P 56566-82-6P 56566-83-7P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and dehydration of)

INDEX TERM: 56566-87-1P 56566-89-3P 56566-91-7P 56566-93-9P
56566-97-3P 56567-05-6P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and dehydrogenation of)

INDEX TERM: 56567-15-8P 56567-17-0P 56567-19-2P 56567-21-6P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and ring cleavage of)

INDEX TERM: 2473-39-4P 2473-40-7P 56566-80-4P 56566-85-9P
56566-95-1P 56566-99-5P 56567-01-2P 56567-03-4P
56567-07-8P 56567-09-0P 56567-11-4P 56567-13-6P
56567-23-8P 56567-25-0P 56567-26-1P 56567-27-2P
56567-28-3P 56567-30-7P 56567-31-8P 56567-32-9P
56567-34-1P 56567-36-3P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

INDEX TERM: 16883-69-5
ROLE: RCT (Reactant)
(reaction with aldehydes and ammonia or methylamine)

INDEX TERM: 7250-28-4 **16844-10-3** 56567-29-4
ROLE: RCT (Reactant)
(reaction with benzaldehyde and ammonia)

INDEX TERM: 17282-38-1 17282-41-6
ROLE: RCT (Reactant)
(reaction with methylbenzaldehyde and ammonia)

INDEX TERM: 104-87-0
ROLE: RCT (Reactant)
(reaction with phenacyl- or acetonylpyridinium bromides and ammonia)

INDEX TERM: 74-89-5
ROLE: RCT (Reactant)
(reaction with phenacylpyridinium bromide and benzaldehyde)

INDEX TERM: 7664-41-7, reactions
ROLE: RCT (Reactant)
(with phenacyl- or acetonylpyridinium bromides and

aldehydes)
INDEX TERM: 100-52-7, reactions
ROLE: RCT (Reactant)
(with phenacyl- or acetonylpyridinium bromides and ammonia or methylamine)
INDEX TERM: 50-00-0, reactions
ROLE: RCT (Reactant)
(with phenacylpyridinium bromide and ammonia)

L2 ANSWER 9 OF 10 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1974:36969 CAPLUS
DOCUMENT NUMBER: 80:36969
TITLE: Synthesis and thermal reaction of pyridinium 3,3-diacyl-1-benzoylallylides[3,3-diacyl-1-benzoyl-1-(1-pyridinio)prop-2-enides]. Formation of indolizine derivatives
AUTHOR(S): Tamura, Yasumitsu; Sumida, Yoshio; Ikeda, Masazumi
CORPORATE SOURCE: Fac. Pharm. Sci., Osaka Univ., Osaka, Japan
SOURCE: J. Chem. Soc., Perkin Trans. 1 (1973), (19), 2091-5
CODEN: JCPRB4
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 27-17 (Heterocyclic Compounds (One Hetero Atom))
GRAPHIC IMAGE: For diagram(s), see printed CA Issue.
ABSTRACT:
Pyridinium phenacylides with 2,2-diacyl-1-ethoxyethylenes gave pyridinium 3,3-diacyl-1-benzoyl-allylides. E.g. pyridinium phenacylide with EtOCH:C(COMe)2 gave 75% allylide (I, R = H). I (R = H) in refluxing Me2C6H4 gave 6% indolizine (II; R = H, R1 = Bz). 2-Methyl derivs. of I in refluxing Me2C6H4 gave mainly 1-acetyl-2-phenylindolizines. E.g. I (R = Me) gave 30% II (R = Ph, R1 = CH:CHCOMe) and 2% II (R = H, R1 = Bz).

SUPPL. TERM: pyridinium allylide; pyridiniopropenide; propenide pyridinio; cyclization pyridinium allylide indolizine
INDEX TERM: Ring closure and formation
(of pyridinium diacylbenzoylallylides, indolizines by)
INDEX TERM: 70-11-1
ROLE: PROC (Process)
(cycloaddn. of, with acetonylpyridine)
INDEX TERM: 7250-28-4 **16844-10-3** 16883-69-5
ROLE: PROC (Process)
(cycloaddn. of, with acetylacetylene)
INDEX TERM: 6302-02-9
ROLE: PROC (Process)
(cycloaddn. of, with phenacyl bromide)
INDEX TERM: 1423-60-5
ROLE: PROC (Process)
(cycloaddn. of, with phenacylpyridinium bromide)
INDEX TERM: 51386-31-3P 51386-32-4P 51386-33-5P 51386-34-6P
51386-35-7P 51386-36-8P 51386-40-4P 51386-41-5P
51386-42-6P 51386-43-7P 51386-44-8P 51386-45-9P
51386-46-0P 51386-47-1P 51386-48-2P 51386-49-3P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
INDEX TERM: 17282-43-8 25357-50-0 51386-37-9 51386-38-0
51386-39-1
ROLE: RCT (Reactant)
(reaction of, with (ethoxymethylene)pentanedione)
INDEX TERM: 87-13-8 94-05-3 33884-41-2
ROLE: RCT (Reactant)
(reaction of, with pyridinium phenacylides)

L2 ANSWER 10 OF 10 CAPLUS COPYRIGHT 1999 ACS

ACCESSION NUMBER: 1967:453263 CAPLUS
DOCUMENT NUMBER: 67:53263
TITLE: Kinetics of the reaction of pyridines with phenacyl bromide in nitrobenzene
AUTHOR(S): Litvinenko, L. M.; Perel'man, L. A.
CORPORATE SOURCE: Donetsk. Gos. Univ., Donetsk, USSR
SOURCE: Zh. Org. Khim. (1967), 3(5), 936-42
CODEN: ZORKAE
DOCUMENT TYPE: Journal
LANGUAGE: Russian
CLASSIFICATION: 22 (Physical Organic Chemistry)
ABSTRACT:

The title reaction was found to proceed irreversibly and nearly quant. with formation of compds. of general formula (RC5H4N+CH2Bz)Br- (I), where RC5H4N is substituted pyridine. The reaction kinetics were followed by potentiometric titrn. of the appearing Br-. Rate consts. (k), activation energies (E), entropy changes (.DELTA.S), and log A (A frequency factor) were calcd. Also Hammett-Taft consts., .sigma.0 and .rho.0, were detd. from the equation log KR-log KH = .rho.0.sigma.0 (R, m.p., .sigma..degree., K at 25.degree., K at 40.degree., K at 55.degree. in l. mole-1 sec.-1 .times. 103, E in cal. mole-1, S in cal. degree-1 mole-1, log A in l. mol.-1 sec.-1 given)0 H, 206.5.degree., 0, 1.93 .+-. 0.04, 4.80 .+-. 0.16, 12.6 .+-. 0.5, 11,900, -33.8, 6.01; 3-Me, 189-90.degree., -0.07, 4.84 .+-. 0.03, 10.2 .+-. 0.2, 22.9 .+-. 0.7, 11,000, -34.5, 5.65; 3-NO2, 201-2.degree., 0.70, 0.00338 .+-. 0.00014, 0.0104 .+-. 0.0001, 0.0289 .+-. 0.0002, 13,900, -39.7, 4.73; 3-Br, 194-5.degree., 0.38, 0.0660 .+-. 0.0011, 0.185 .+-. 0.008, 0.472 .+-. 0.010, 12,800, -37.6, 5.18; 4-Et, 218-19.degree., -0.15, 5.83 .+-. 0.14, 15.2 .+-. 0.7, 32.0 .+-. 0.8, 11,100, -34.3, 5.89; 4-NH2, 299-300.degree., -0.38, 179.0 .+-. 0.6, 378.0 .+-. 17.0, 729.0 .+-. 25.0, 9100, -34.1, 5.95; 3-Bz, 238-40.degree., 0.34, 0.170 .+-. 0.003, -, -, -, -, -; 4-Ph, 203-5.degree., 0, 2.63 .+-. 0.13, 6.55 .+-. 0.10, 14.8 .+-. 0.7, 11,200, -35.5, 5.64.

SUPPL. TERM: HAMMETT TAFT KINETICS; PHENACYL BROMIDE PYRIDINES KINETICS; PYRIDINES KINETICS PHENACYL BROMIDE

INDEX TERM: Activation energy
Frequency factor
(of 2-bromoacetophenone reaction with pyridines)

INDEX TERM: Kinetics, reaction
(of 2-bromoacetophenones with pyridines)

INDEX TERM: Entropy
(of activation, of 2-bromoacetophenone reaction with pyridines)

INDEX TERM: 6299-99-6P **16844-10-3P** 16844-11-4P 16844-13-6P 16844-14-7P 16844-15-8P 16883-69-5P 16883-70-8P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

INDEX TERM: 108-99-6 504-24-5 536-75-4 626-55-1 939-23-1 2530-26-9 5424-19-1
ROLE: PRP (Properties)
(reaction with 2-bromoacetophenone, kinetics of)

INDEX TERM: 70-11-1
ROLE: PRP (Properties)
(reaction with pyridines, kinetics of)

INDEX TERM: 110-86-1, reactions
ROLE: RCT (Reactant)
(with 2-bromoacetophenone, kinetics of)

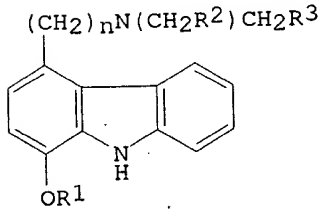
preparation); PREP (Preparation)
(process for the prepn. of benzothiazolones)
IT 108773-04-2P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process for the prepn. of benzothiazolones)
IT 55-81-2 532-55-8, Benzoylisothiocyanate
RL: RCT (Reactant)
(process for the prepn. of benzothiazolones)

L17 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 1999 ACS
AN 1993:495333 HCAPLUS
DN 119:95333
TI Preparation of carbazoles as dopaminergic receptor antagonists
IN Hibino, Satoshi; Okuyama, Shigeru; Nakazato, Atsuo; Kawashima, Yutaka
PA Taisho Pharma Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07D209-88
ICS A61K031-40
CC 27-11 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05058998	A2	19930309	JP 1991-226856	19910906

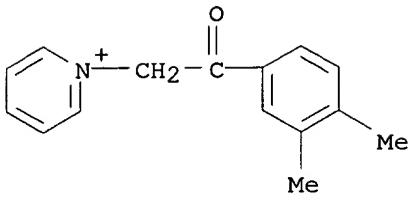
OS MARPAT 119:95333
GI



I

AB Carbazoles I (R1 = H, C1-5 alkyl; R2, R3 = C1-5 alkyl; n = 1-3) and their salts, useful for treatment of aggressive behaviors, excitement, etc., in cerebrovascular disorders and senile dementia, are prepd. Treatment of 0.79 g 1-methoxy-4-(N-propyl-N-propionyl)aminoethylcarbazole (prepn. given) with LiAlH4 in THF at room temp. for 14 h gave 0.71 g I (R1 = Me, R2 = R3 = Et, n = 2) (II), which was converted into HCl salt in 75.4% yield. II inhibited specific binding of (-)-[3H]-sulpiride to adrenergic D2 receptor with IC50 of 648 nM, vs. 86,000 nM, for rimcazole.

ST adrenergic receptor antagonist carbazole prepn; cerebrovascular disorder dementia treatment carbazole
IT Adrenergic antagonists
(carbazoles, for treatment of cerebrovascular disorders and senile dementia)
IT Mental disorder
(treatment of, carbazoles for)



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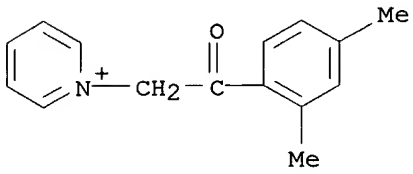
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 2 OF 4 REGISTRY COPYRIGHT 1999 ACS
RN 59224-30-5 REGISTRY
CN **Pyridinium, 1-[2-(2,4-dimethylphenyl)-2-oxoethyl]-, bromide (9CI)**
(CA INDEX NAME)
MF **C15 H16 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)



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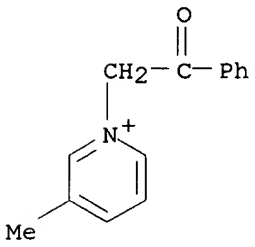
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 3 OF 4 REGISTRY COPYRIGHT 1999 ACS
RN 56567-29-4 REGISTRY
CN **Pyridinium, 3,5-dimethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER NAMES:
CN **3,5-Dimethyl-1-phenacylpyridinium bromide**
MF **C15 H16 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)
CRN (110854-02-9)

CN 1-Phenacyl-3-picolinium bromide
CN **3-Methyl-1-phenacylpyridinium bromide**
MF **C14 H14 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)
CRN (59036-97-4)



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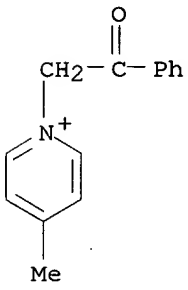
10 REFERENCES IN FILE CA (1967 TO DATE)
10 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 4 OF 5 REGISTRY COPYRIGHT 1999 ACS
RN 7250-28-4 REGISTRY
CN **Pyridinium, 4-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Phenacyl-4-picolinium bromide (6CI)
CN 4-Picolinium, 1-phenacyl-, bromide (8CI)
OTHER NAMES:
CN **1-Phenacyl-4-methylpyridinium bromide**
CN **4-Methyl-1-phenacylpyridinium bromide**
MF **C14 H14 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXLIT, USPATFULL
(*File contains numerically searchable property data)
CRN (46720-78-9)



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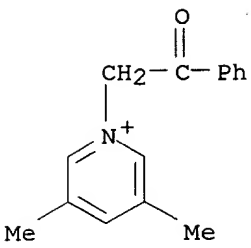
22 REFERENCES IN FILE CA (1967 TO DATE)
22 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)



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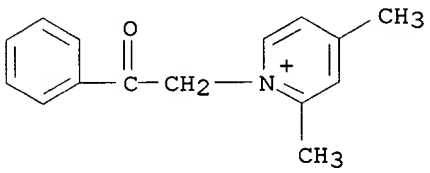
6 REFERENCES IN FILE CA (1967 TO DATE)
6 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 4 OF 4 REGISTRY COPYRIGHT 1999 ACS
RN 26557-57-3 REGISTRY
CN **Pyridinium, 2,4-dimethyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **Pyridinium, 2,4-dimethyl-1-phenacyl-, bromide (8CI)**
MF **C15 H16 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMINFORMRX
(*File contains numerically searchable property data)



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3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s 56567-29-4/rn

L7 1 56567-29-4/RN

=> s 16844-10-3/rn

L8 1 16844-10-3/RN

=> file caplu

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	44.40	44.55

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LC STN Files: BEILSTEIN*, CA, CAPLUS
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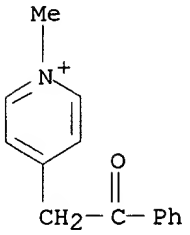

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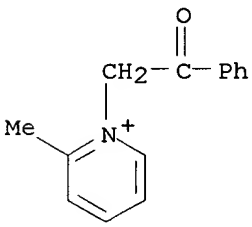
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 2 OF 5 REGISTRY COPYRIGHT 1999 ACS
RN 32896-98-3 REGISTRY
CN **Pyridinium, 2-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Picolinium, 1-phenacyl-, bromide (8CI)
OTHER NAMES:
CN **2-Methyl-1-phenacylpyridinium bromide**
CN **2-Methyl-N-phenacylpyridinium bromide**
MF **C14 H14 N O . Br**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM
(*File contains numerically searchable property data)
CRN (136714-42-6)



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18 REFERENCES IN FILE CA (1967 TO DATE)
18 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 3 OF 5 REGISTRY COPYRIGHT 1999 ACS
RN 16844-10-3 REGISTRY
CN **Pyridinium, 3-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI)**
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Picolinium, 1-phenacyl-, bromide (8CI)
OTHER NAMES:
CN **1-Phenacyl-3-methylpyridinium bromide**

IT Cardiovascular system
(disease, treatment of, carbazoles for)
IT Mental disorder
(senile psychosis, treatment of, carbazoles for)
IT 79-03-8, Propionyl chloride
RL: RCT (Reactant)
(amidation of, with methoxyphenethylamine)
IT 55-81-2, 4-Methoxyphenethylamine
RL: RCT (Reactant)
(amidation of, with propionyl chloride)
IT 577-19-5, o-Nitrobromobenzene
RL: RCT (Reactant)
(condensation of, with aminophenethylamine deriv.)
IT 67191-51-9P 102842-44-4P 149081-92-5P **149081-93-6P**
149081-94-7P 149081-95-8P 149081-96-9P 149081-97-0P
149081-98-1P 149081-99-2P 149082-00-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction of)
IT 149060-88-8P 149082-01-9P 149082-02-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, for treatment of cerebrovascular disorders and senile dementia)

DICTIONARY FILE UPDATES: 31 AUG 99 HIGHEST RN 236127-00-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 13, 1999

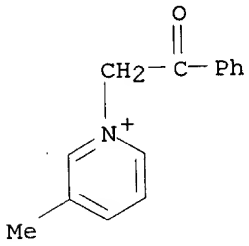
Please note that search-term pricing does apply when conducting SmartSELECT searches.

=> s 16844-10-3/rn

L1 1 16844-10-3/RN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 1999 ACS
RN **16844-10-3** REGISTRY
CN Pyridinium, 3-methyl-1-(2-oxo-2-phenylethyl)-, bromide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Picolinium, 1-phenacyl-, bromide (8CI)
OTHER NAMES:
CN 1-Phenacyl-3-methylpyridinium bromide
CN 1-Phenacyl-3-picolinium bromide
CN 3-Methyl-1-phenacylpyridinium bromide
MF C14 H14 N O . Br
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)
CRN (59036-97-4)



● Br^-

10 REFERENCES IN FILE CA (1967 TO DATE)
10 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file caplu

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.65	1.80

FILE 'CAPLUS' ENTERED AT 14:55:09 ON 31 AUG 1999

Et, R = Ph) with NH4OH and refluxing Me2CHOH gave Et 2-phenyl-7-indolizinecarboxylate (IV). Acylation of III and IV by Ac2O, BzCl, and 4-ClC6H4COCl yielded the acylindolizines V (R2 = Me, Ph; R3 = Me, Ph, 4-ClC6H4).

IT **54342-81-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclization of)

L14 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 1999 ACS
AN 1970:77111 HCAPLUS
DN 72:77111
TI Further structure-activity relations of heterocyclic analogs of hemicholinium 3
AU Benz, Frederick W.; Long, John Paul
CS Dep. of Pharmacol., Univ. of Iowa, Iowa City, Iowa, USA
SO J. Pharm. Pharmacol. (1970), 22(1), 20-5
CODEN: JPPMAB
DT Journal
LA English
AB The importance of the 3-Me group on the pyridinium ring of bis-quaternary nitrogen salts for hemicholinium-3-like activity having been conditionally established (Benz and Long, 1969), derivs. contg. classical isosteres of the 3-Me group and the 3 oxidn. states of the 3-Me group were examd. Oxidn. of the 3-Me group to CH2OH decreased activity tenfold. Subsequent oxidn. to CHO and CO2H further decreased activity. When the 3-Me group was replaced by a halogen, activity was maintained by the iodo-deriv. but decreased as the size of the halogen decreased and as the electronegativity increased. Substitution of an Et group for the 3-Me decreased activity twofold, whereas replacement with OH eliminated activity.

IT **24620-81-3**
RL: BIOL (Biological study)
(neuromuscular inhibition by)